

FIG. 1



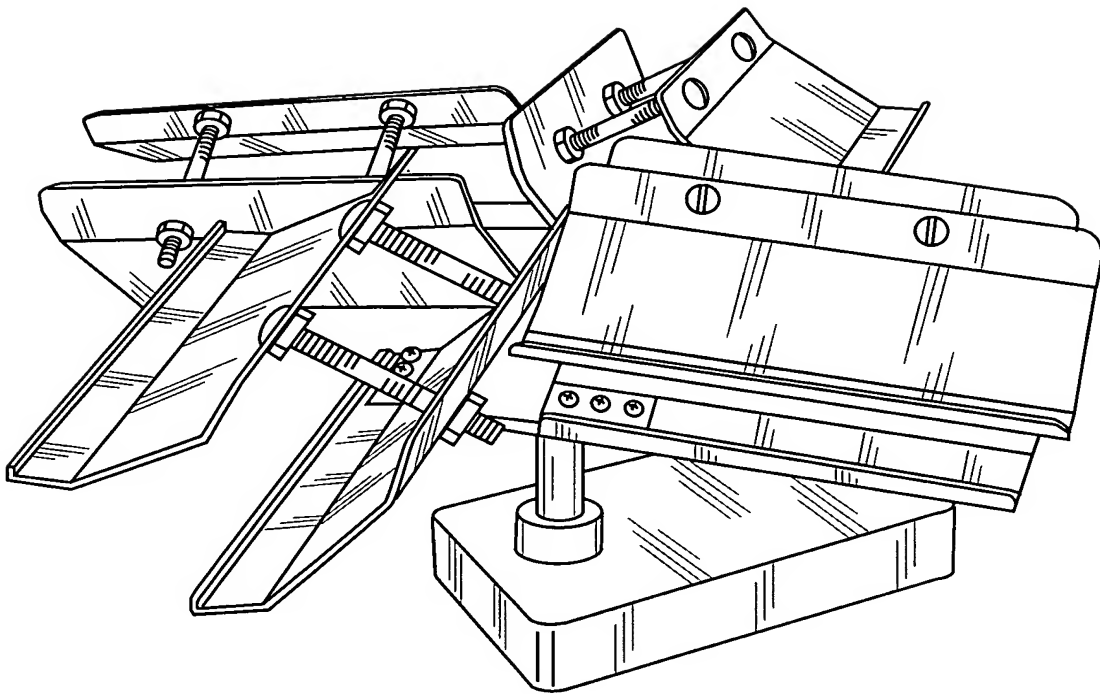
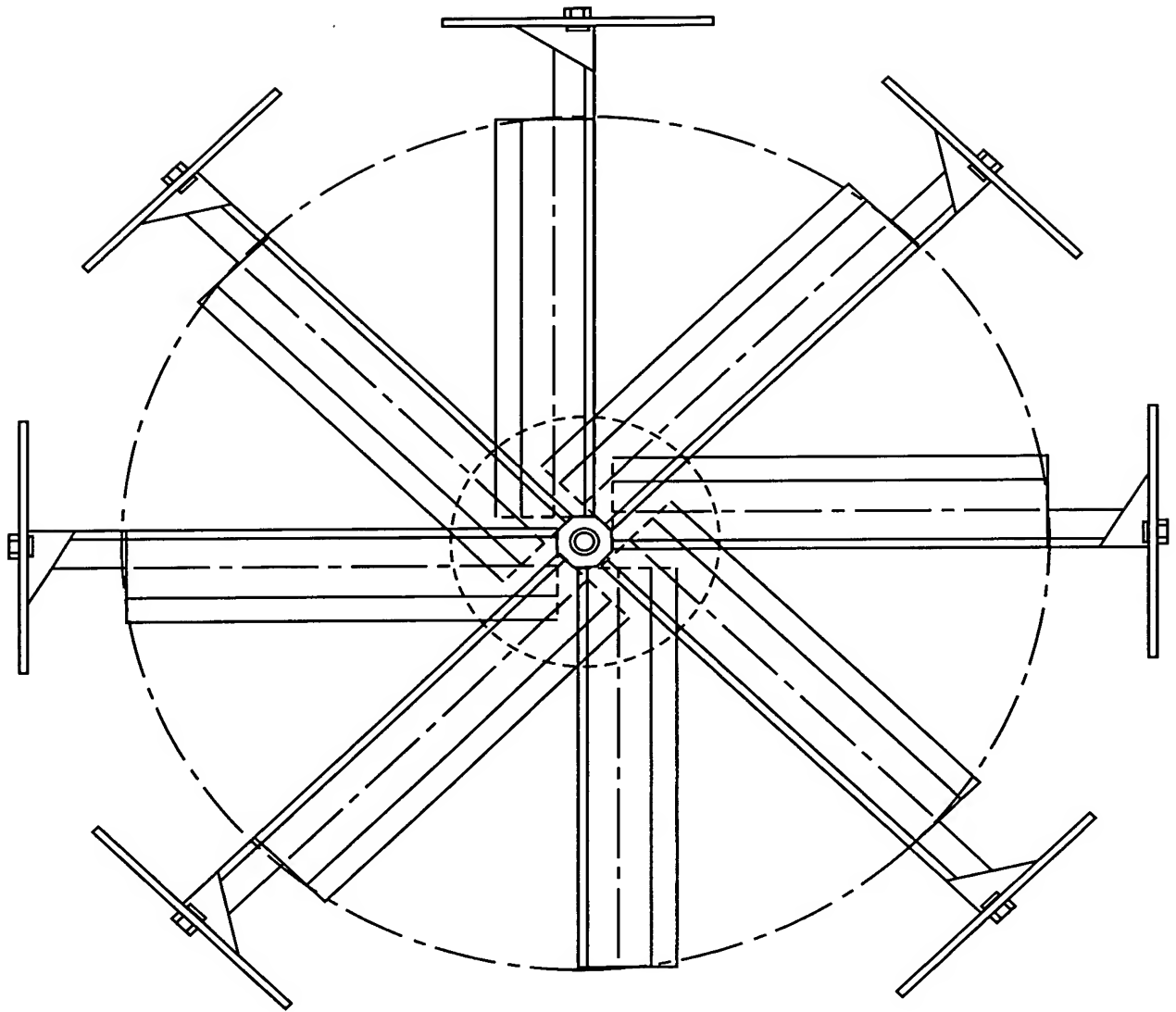
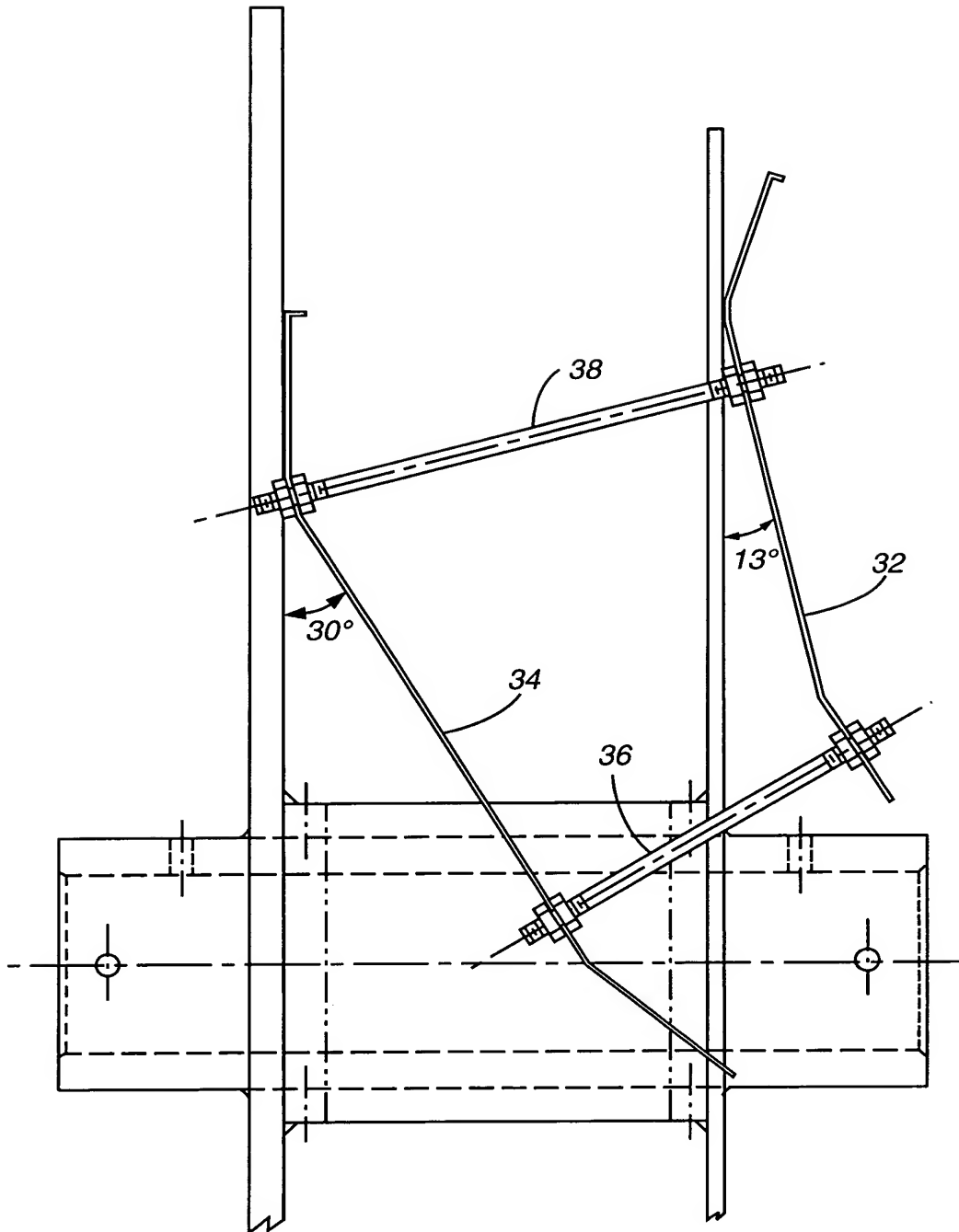
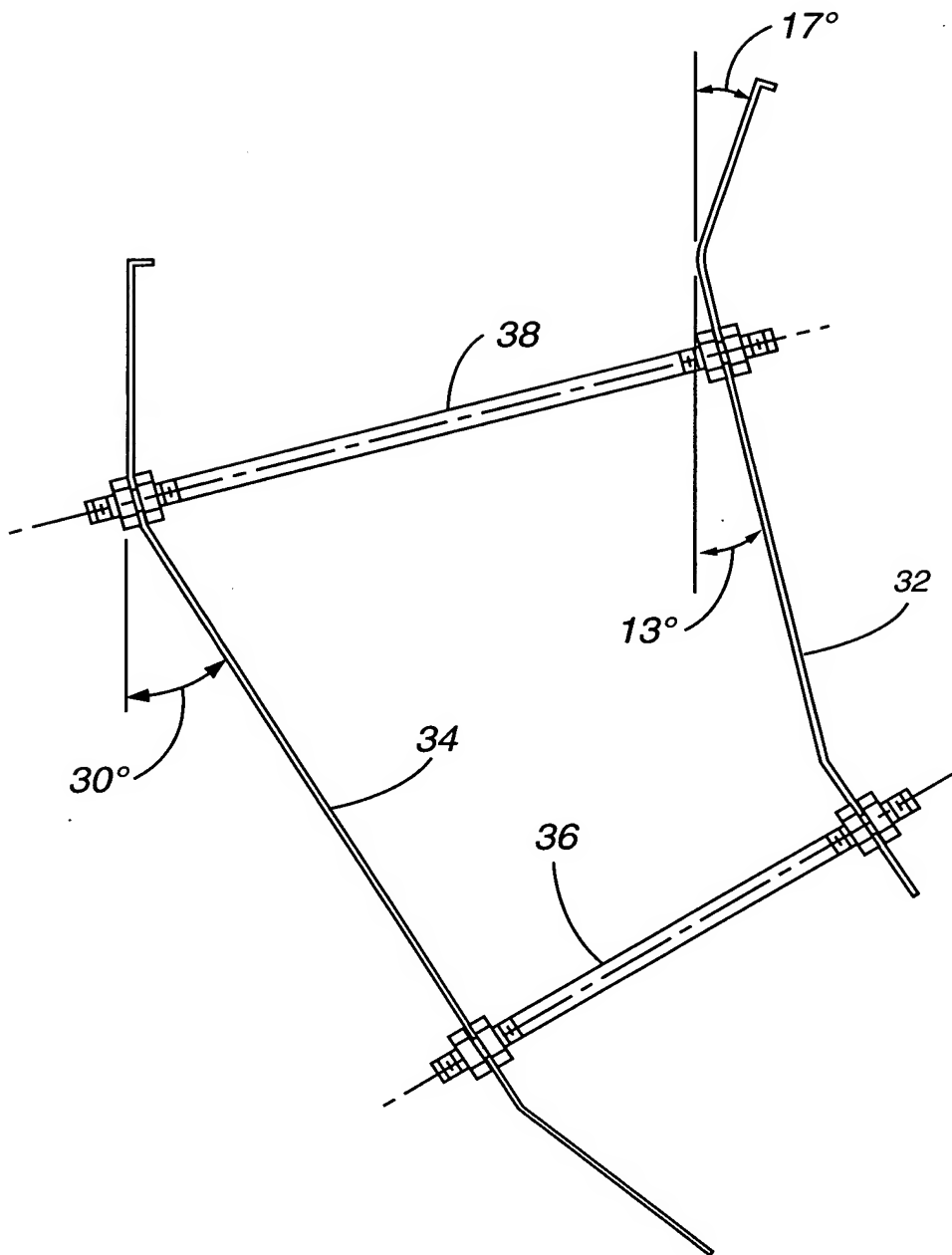


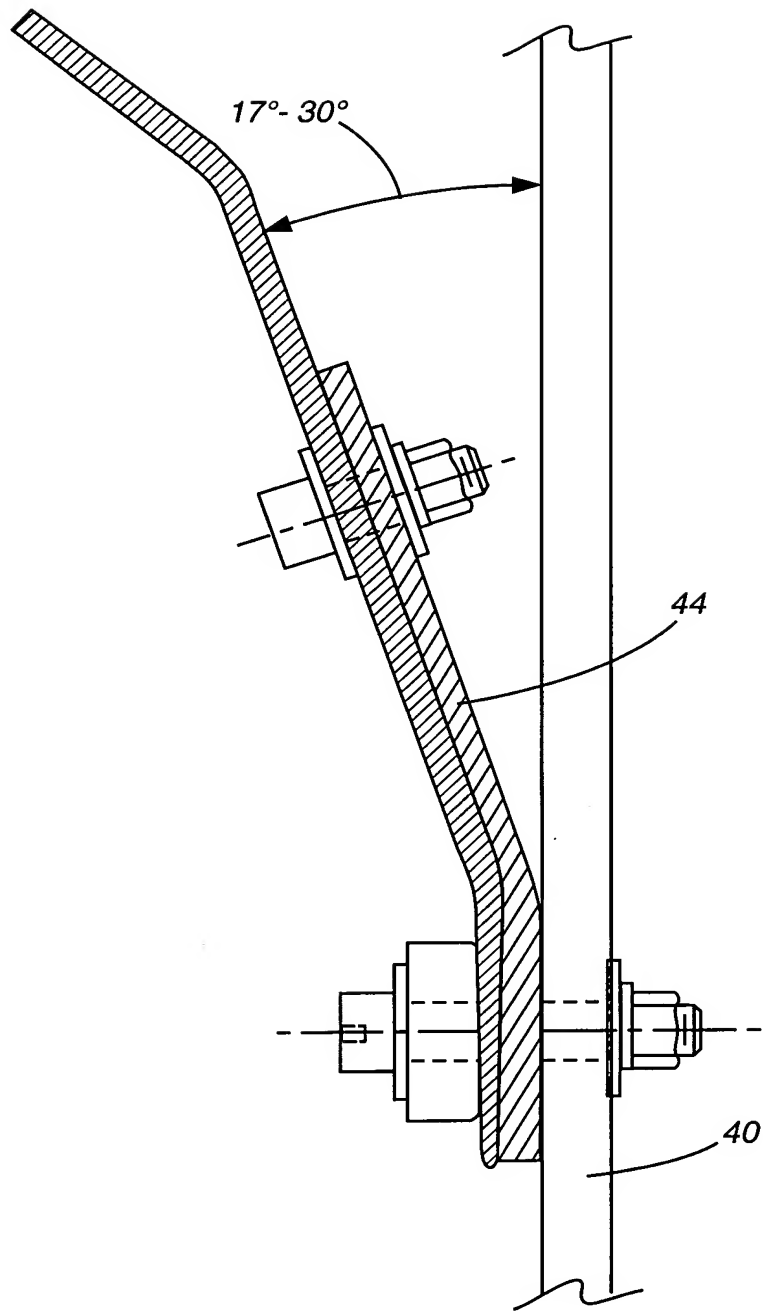
FIG. 2

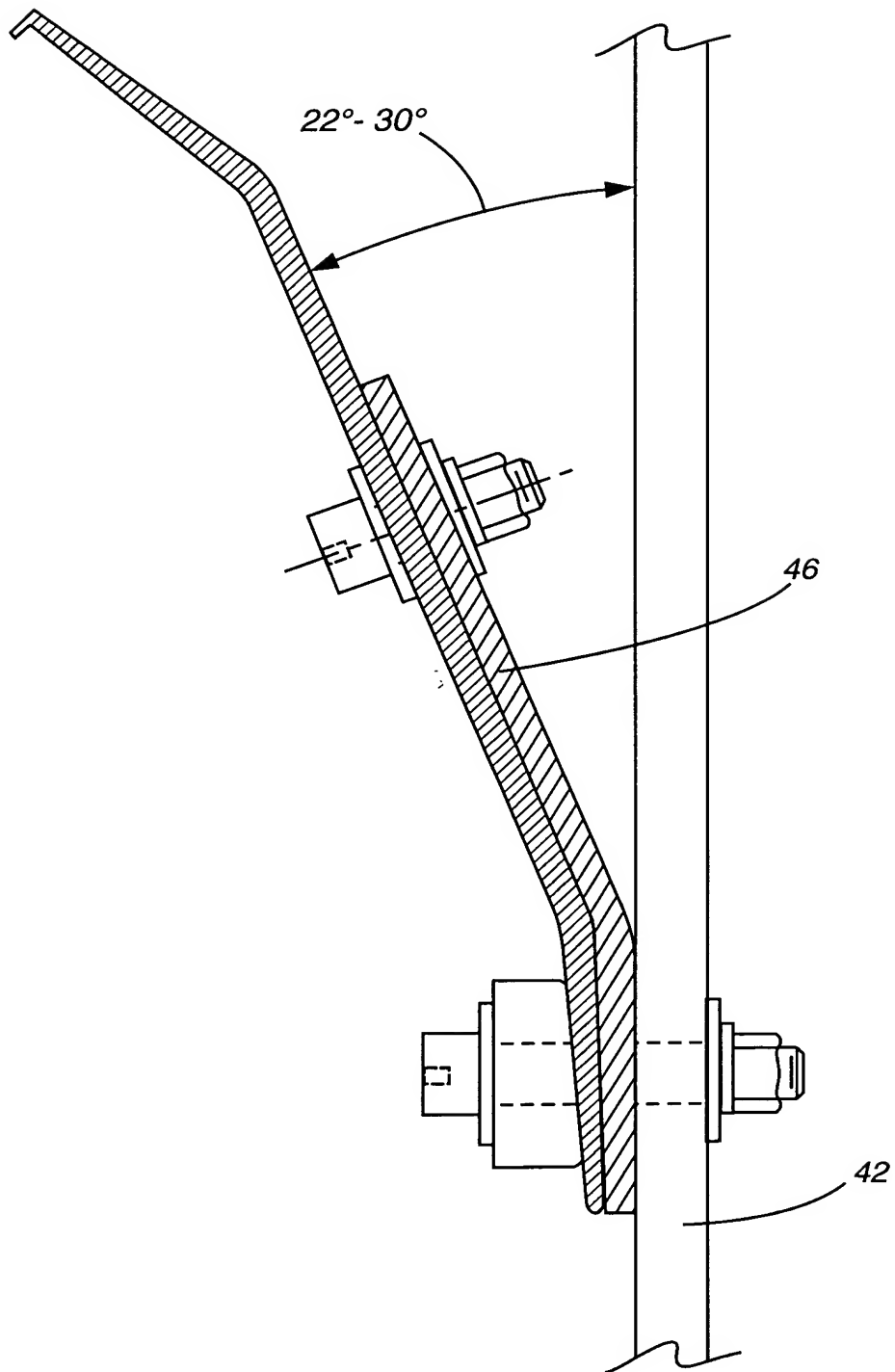


**FIG.3**

**FIG. 4**

**FIG. 5**

**FIG. 6**

**FIG. 7**

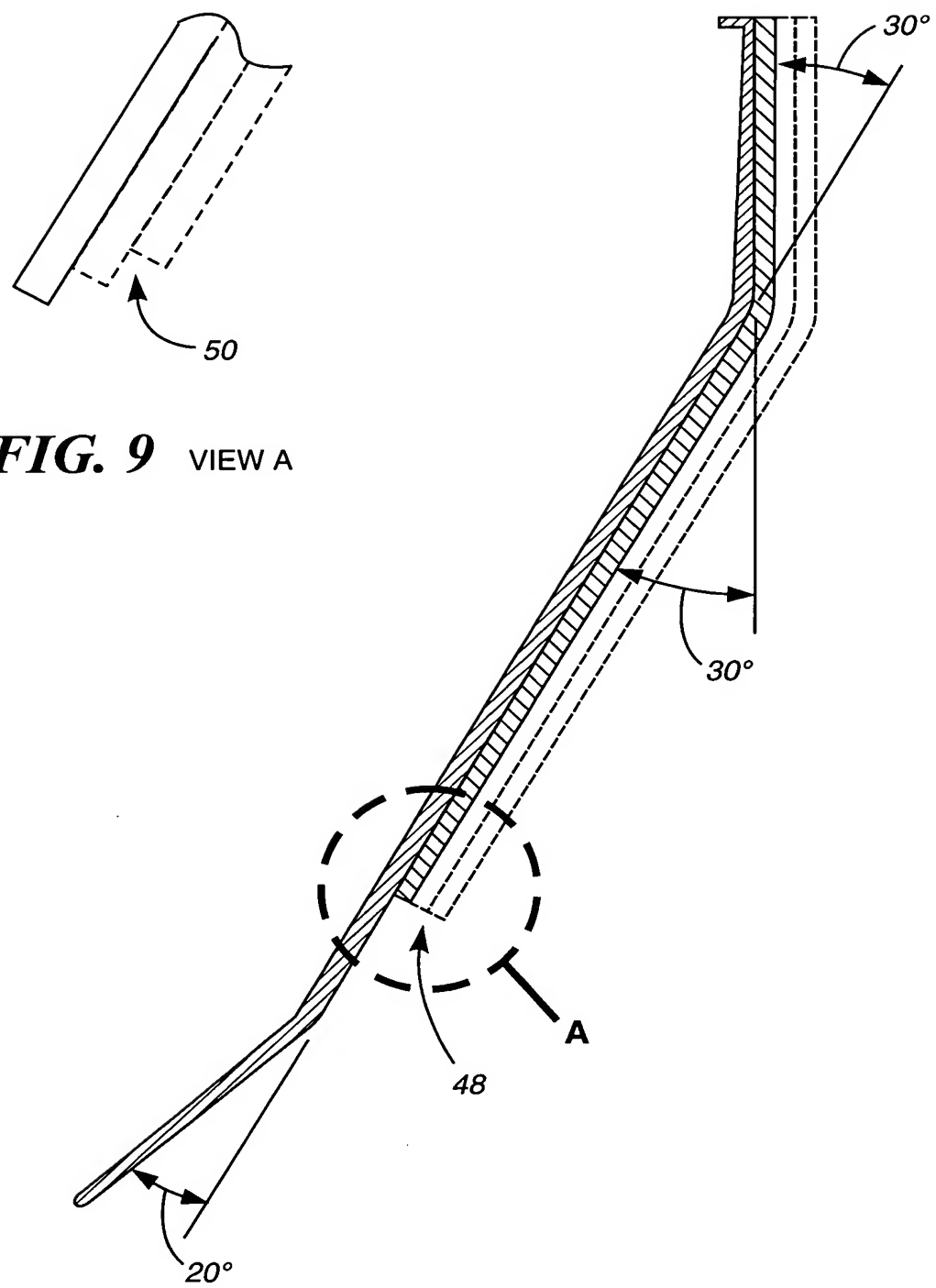


FIG. 9 VIEW A

FIG. 8





COMPARISON OF LIFT FORCE PER FOOT OF AIRFOIL (VANE) LENGTH VS. ANGLE OF ATTACK FOR THREE DIFFERENT AIRFOILS.			
ANGLE OF ATTACK	7" CHORD McCABE AIRFOIL	8 13/32" CHORD NACA-12 AIRFOIL	9 1/2" - 7" CHORD McCABE BI- VANE AIRFOIL
0°	1.04#	-	2.85#
8°	-	-	3.40#
12°	1.85#	0.95#	3.65#
16°	-	-	3.35#
29°	2.40#	1.25#	2.20#

FIG. 10

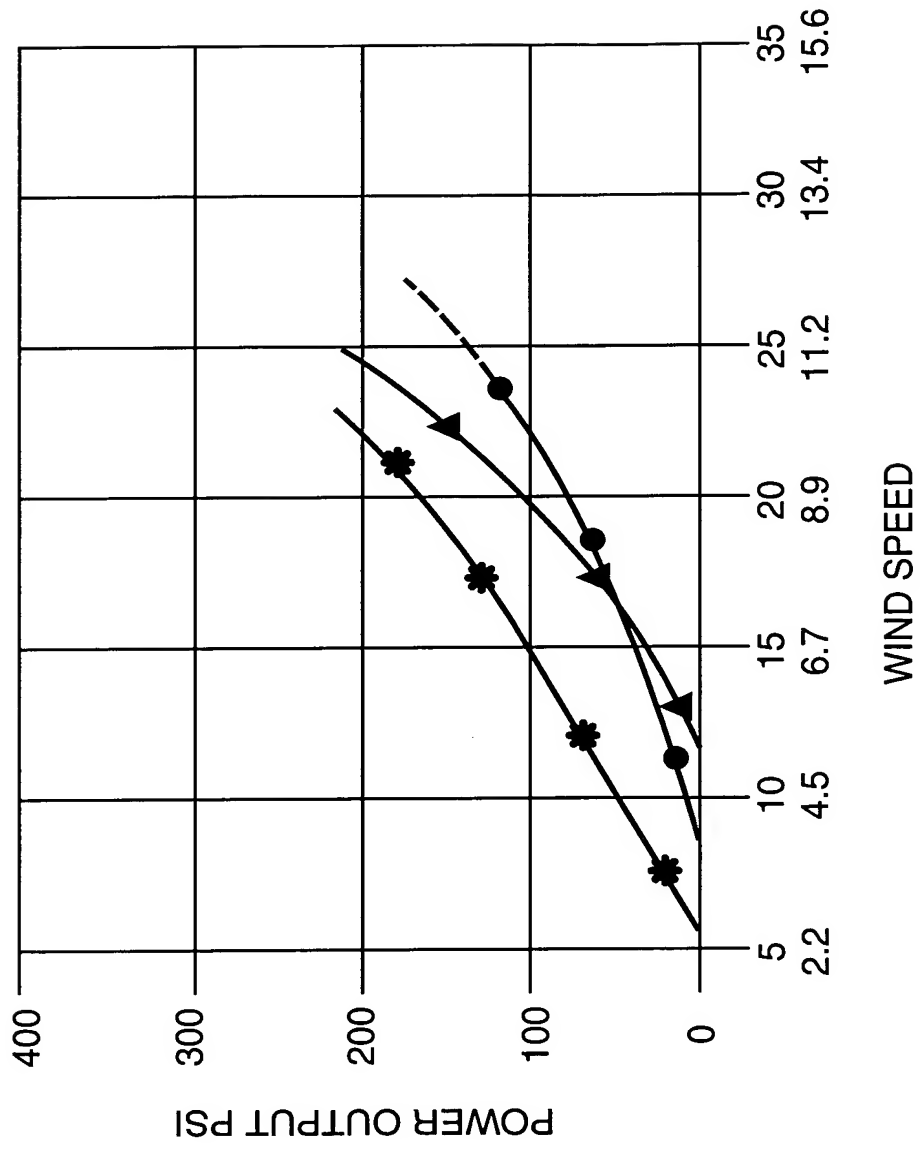


FIG. 11



FIG. 12

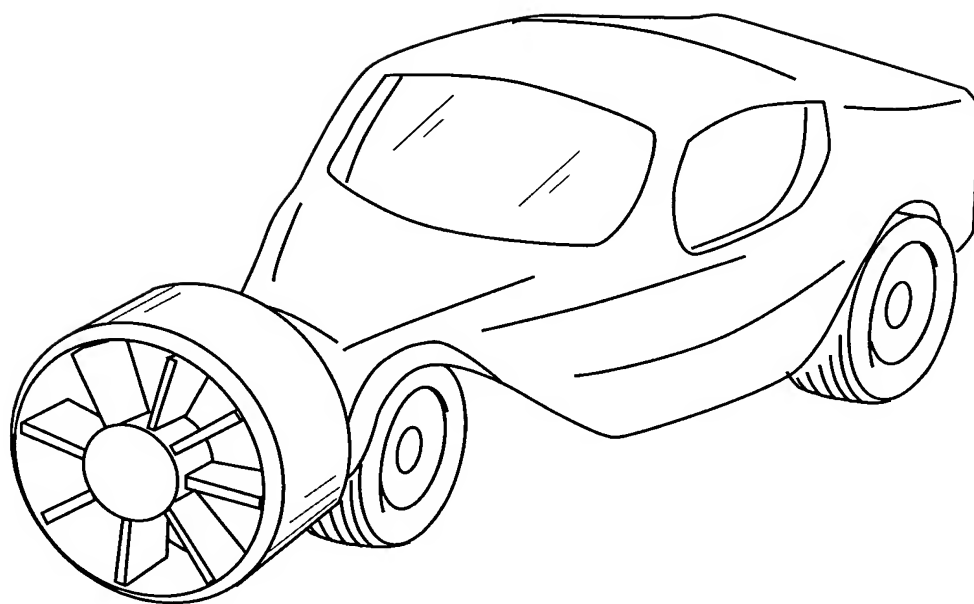
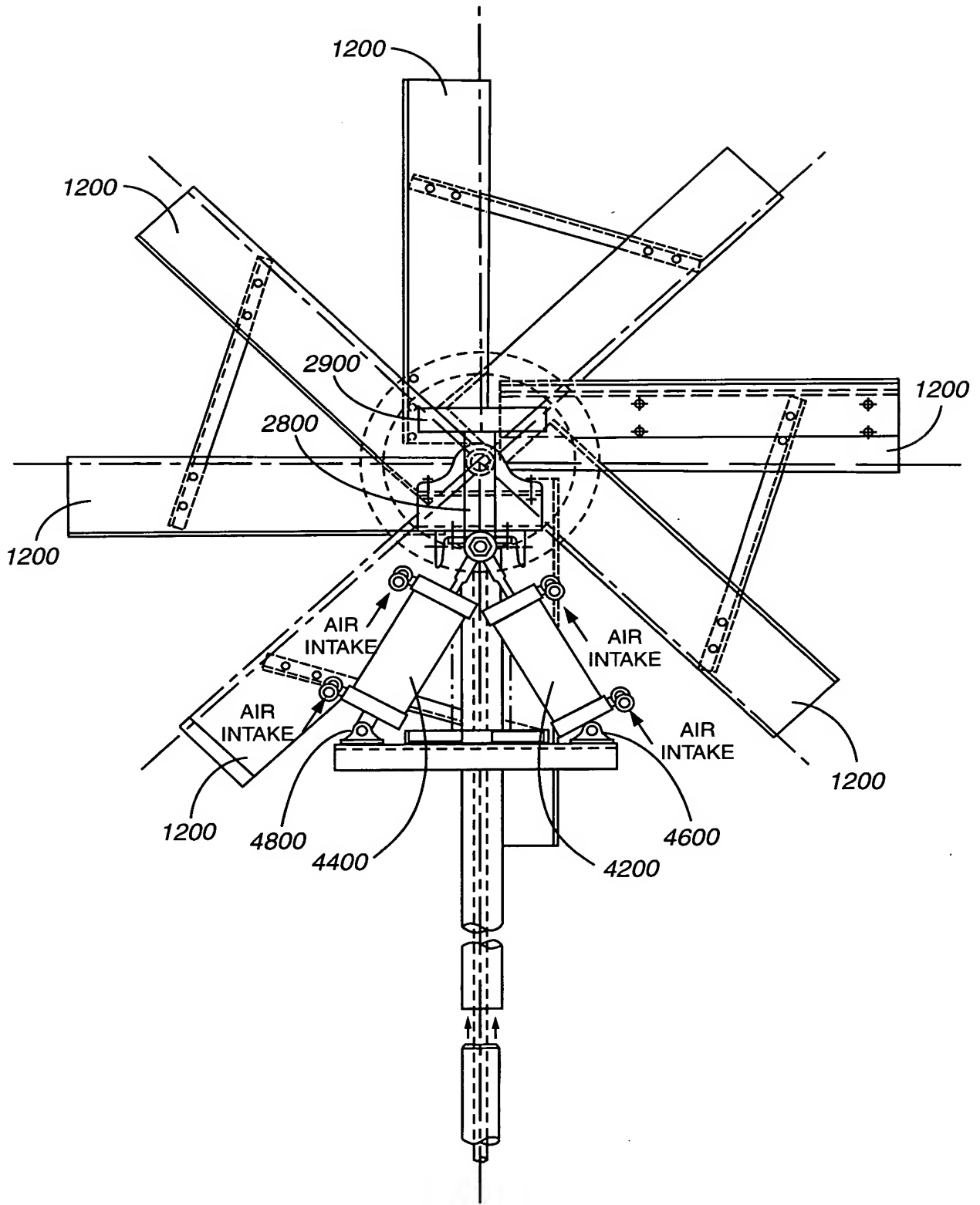
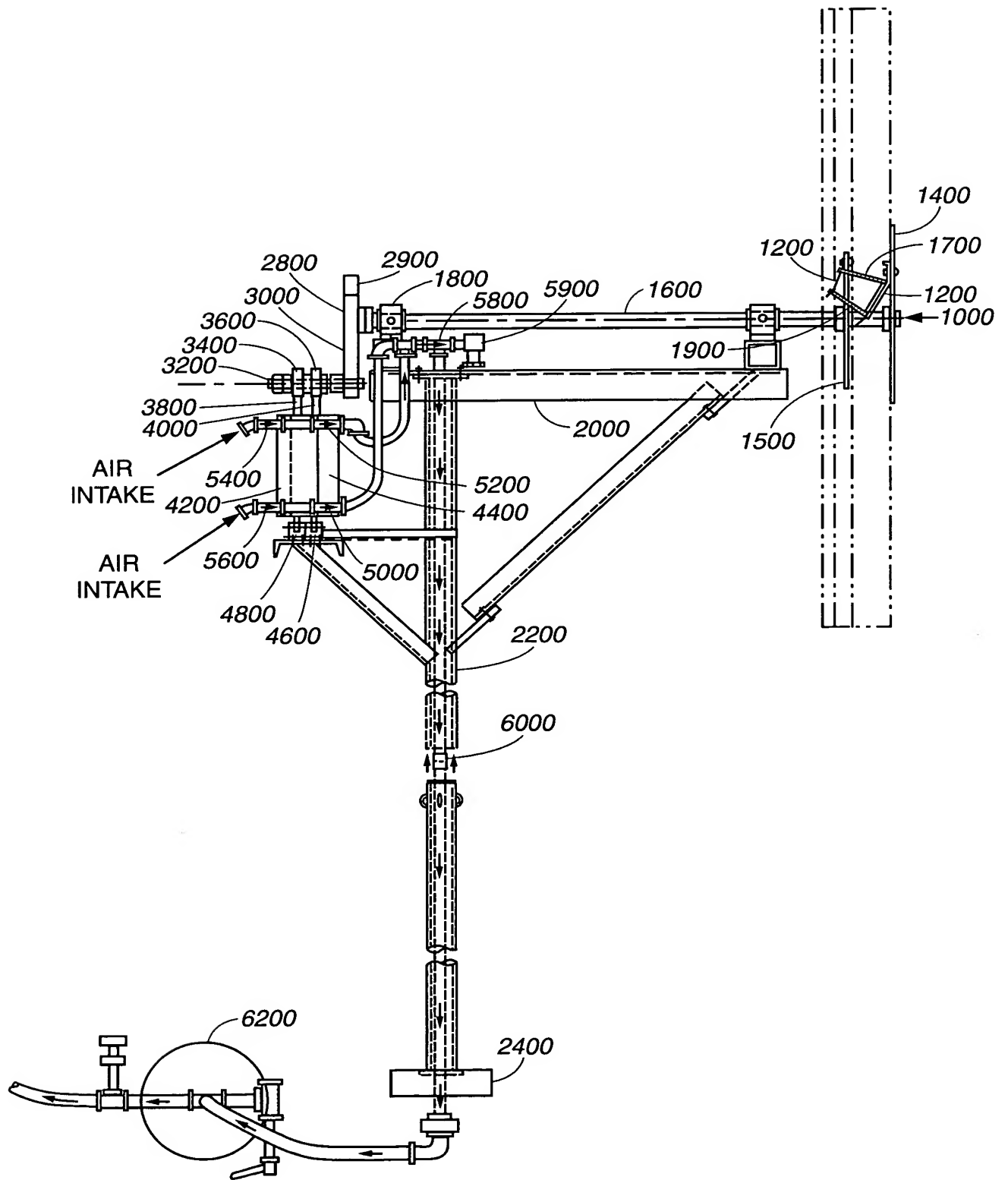


FIG. 13



**FIG. 14**

**FIG. 15**

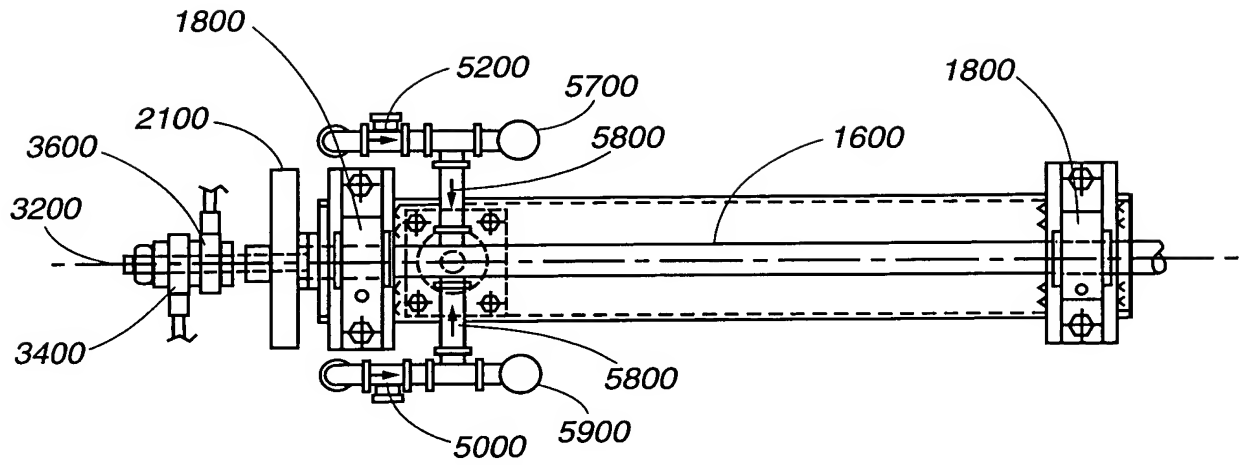


FIG. 16

